Single Pane of Glass
A modern web interface for IT teams to plan, deploy, operate and monitor enterprise networks.

Configuration Automation
Business policies are defined organization-wide, and are enforced across all gateways, access points and switches.

Centralized Visibility
Tracking of network activity across all sites by application and user enables smarter decision making.

Zero-touch Deployment
Network equipment is shipped directly to remote sites already registered and activated from the cloud.

Reporting and Documentation
Business reports and technical documentation can be created for invoicing, audits and management reporting.

Configuration and Analytics API
Third party integration with network configuration and activity data through programmable read/write interfaces.

Gateways
- Next generation firewall
- Web filtering & application control
- Live threat protection
- AutoVPN (Hub’n’Spoke/Full Mesh)
- WAN link balancing
- Traffic prioritization (QoS)
- Network zoning (VLAN & XLAN)
- IPv4/IPv6 address management
- IPv6 ready

Switches
- Network zoning (Auto VLAN)
- Automatic trunking
- Cloud stacking
- Switch resilience
- NAC - port security (MAC & 802.1x)
- Device detection & inventory
- Traffic prioritization (QoS)
- Automatic network documentation
- IPv6 ready

Access Points
- Strong encryption (WPA/WPA2)
- Fast, company wide roaming
- Guest portal & Social Wi-Fi
- BYOD self registration portal
- Wi-Fi hardening (802.11w)
- Integrated WiFi planning
- Network zoning (DynZone)
- Traffic prioritization (802.11e)
- IPv6 ready
**GATEWAY MODELS**

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**Use Case**
- **G50/ G50w G100 VM GAteway**
- **Small branch office or retail**
- **Medium branch office**
- **Virtual- and Cloud Environments**

**Recommended # of users**
- 5-50 users
- 25-250 users
- 5-5000 users

**Performance**
- **1 Gbit/s firewall throughput**
- **200 Mbit/s VPN throughput**
- **2 Gbit/s firewall throughput**
- **400 Mbit/s VPN throughput**
- **Up to 5 Gbit/s, depending on virtualization/cloud platform**

**Interfaces**
- **2x GbE WAN ports**
- **8x GbE LAN ports**
- **2x WLAN (2.4/5 GHz, 2x2 MIMO, only G50w)**
- **1x Built-in 3G WWAN (optional)**
- **1x USB 2.0 port**
- **2x GbE WAN ports**
- **8x GbE LAN ports**
- **1x USB 2.0 port**
- **OLED status display**
- **1-20 GbE LAN ports**

**Power**
- **12V/2A DC power adapter (included)**
- **100-240V 50/60Hz AC (built-in)**
- n/a

**Physical Design**
- **Industrial design**
- **Snapdisc mount**
- **Desktop/wall mountable**
- **Industrial design**
- **1U rackmount**
- Compatible with VMware, KVM, Hyper-V Citrix, Virtual Box, Amazon Web Services (2 Cores, 512 MB RAM, 50MB disk)

**Dimensions**
- **32.0 x 23.5 x 4.5cm**
- **12.6 x 9.3 x 1.8in**
- **44.1 x 21.9 x 4.4cm**
- **17.4 x 8.6 x 1.7in**
- n/a

**Weight**
- **0.8 kg (1.76lb)**
- **3 kg (6.61lb)**
- n/a

**Temperature Range**
- **Operating: 0 to 40°C (32 to 104°F)**
- **Storage: -20 to 60°C (-4 to 140°F)**
- n/a

**Certifications**
- **FCC, CE, CB, ICASA, SABS, NRCS, CITC, TRA, TK, IDA**
- n/a

**Distributed Firewalling**
Modern user and application-based firewalling. One central policy is applied organization-wide.

**Uplink Balancing**
Internet and WAN traffic is intelligently balanced across multiple providers, increasing bandwidth and reliability.

**Traffic Prioritization**
State of the art Quality of Service (QoS) algorithms prioritize network users and applications, e.g. video conferencing.

**AutoVPN**
Secure and fully automated WAN connectivity between local area networks, data centers, and home offices.

**Live Threat Protection**
Connectivity to hundreds of botnets or otherwise infected servers known to be in the wild is blocked by the network.

**Network Zoning**
Organization-wide virtual network zones reduce attack surfaces and contain possible breaches.
## Switch Models

<table>
<thead>
<tr>
<th>Use Case</th>
<th>Small branch office or retail</th>
<th>Medium branch office</th>
<th>Medium and large office</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Performance</strong></td>
<td>30 Gbit/s switching capacity</td>
<td>70 Gbit/s switching capacity</td>
<td>130 Gbit/s switching capacity</td>
</tr>
<tr>
<td></td>
<td>non-blocking fabric</td>
<td>non-blocking fabric</td>
<td>non-blocking fabric</td>
</tr>
<tr>
<td></td>
<td>ultra-low latency</td>
<td>ultra-low latency</td>
<td>ultra-low latency</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>12x GbE PoE+ ports</td>
<td>24x GbE PoE+ ports</td>
<td>48x GbE PoE+ ports</td>
</tr>
<tr>
<td></td>
<td>4x GbE SFP ports</td>
<td>4x 10GbE SFP+ ports</td>
<td>4x 10GbE SFP+ ports</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OLED status display</td>
<td>OLED status display</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>120W PoE Budget</td>
<td>270W PoE Budget</td>
<td>550W PoE Budget</td>
</tr>
<tr>
<td></td>
<td>150W Built-in power supply</td>
<td>300W Built-in power supply</td>
<td>2x 600W Built-in power supply [optional]</td>
</tr>
<tr>
<td></td>
<td>100-240V 50/60Hz AC</td>
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</tr>
<tr>
<td><strong>Physical Design</strong></td>
<td>Industrial design</td>
<td>Industrial design</td>
<td>Industrial design</td>
</tr>
<tr>
<td></td>
<td>Desktop/wall mountable</td>
<td>1U rackmount</td>
<td>1U rackmount</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>30.6 x 21.9 x 4.4 cm (12.0 x 8.6 x 1.7in)</td>
<td>44.1 x 30.5 x 4.4 cm (17.4 x 12.0 x 1.7in)</td>
<td>44.1 x 45.0 x 4.4 cm (17.4 x 17.9 x 1.7in)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2 kg (4.41lb)</td>
<td>4.95 kg (10.91lb)</td>
<td>5.95 kg (13.11lb)</td>
</tr>
<tr>
<td><strong>Temperature Range</strong></td>
<td>Operating: 0 to 45°C (32° to 113°F)</td>
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<td>Operating: 0 to 45°C (32° to 113°F)</td>
</tr>
<tr>
<td></td>
<td>Storage: -20 to 60°C (-4° to 140°F)</td>
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</tbody>
</table>

### Network Zoning
Organization-wide automated deployment of VLANs reduces attack surfaces and contains possible breaches.

### Automatic Trunking
VLAN and LAG are automated when connecting switches, eliminating manual configuration errors.

### Traffic Prioritization
State of the art Quality of Service (QoS) algorithms prioritize network users and applications, e.g. video conferencing.

### Cloud Stacking
Ports are managed across the entire network as if working with a single switch.

### Port Security
Only known and allowed devices get network access. Authentication through MAC learning or 802.1x.

### Low Noise
Ocedo switches come without any moving parts, greatly increasing reliability and reducing noise.

### OCEDO SWITCHING
CLOUD MANAGED SDN SWITCHES
**OCEDO WIRELESS**

**CLOUD MANAGED SDN ACCESS POINTS**

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**ACCESS POINTS MODELS**

<table>
<thead>
<tr>
<th></th>
<th>AP3</th>
<th>AP5</th>
<th>AP5r</th>
</tr>
</thead>
</table>
| **Radio Specification** | 1x 802.11g/n radio on 2.4 GHz  
1x 802.11a/n radio on 5 GHz  
600 Mbps max rate  
2x2 MIMO with 2 spatial streams  
Internal diversity antennas  
2x 5dBi on 2.4 GHz  
2x 5dBi on 5 GHz | 1x 802.11g/n radio on 2.4 GHz  
1x 802.11a/n/ac radio on 5 GHz (DFS)  
1750 Mbps max rate  
3x3 MIMO with 3 spatial streams  
Internal 3D sectorized antenna array  
3x 4dBi on 2.4 GHz  
3x 5dBi on 5 GHz | 1x 802.11g/n radio on 2.4 GHz  
1x 802.11a/n/ac radio on 5 GHz (DFS)  
1750 Mbps max rate  
3x3 MIMO with 3 spatial streams  
Omni-directional antennas (N-Type)  
3x 5dBi on 2.4 GHz  
3x 7dBi on 5 GHz |
| **Interface**      | 1x GbE port              | 1x GbE port                 | 2x GbE ports             |
| **Power**          | 802.3af Power-over-Ethernet  
12V/2A DC power adapter (optional) | 802.3at Power-over-Ethernet  
12V/2A DC power adapter (optional) | 802.3at Power-over-Ethernet  |
| **Physical Design**| Industrial design  
Snadisc mount  
Desktop/wall/ceiling mountable | Industrial design  
Snapdisc mount  
Desktop/wall/ceiling mountable | Industrial design  
Wall, pole mountable  
IP68-rated waterproof housing |
| **Dimensions**     | 18.9 x 21.0 x 4.0cm  
(7.44 x 8.26 x 1.57in) | 18.9 x 21.0 x 4.5cm  
(7.44 x 8.26 x 1.77in) | 28.5 x 21.8 x 5.3cm  
(11.22 x 8.58 x 2.10in) |
| **Weight**         | 0.8 kg (1.8 lb)          | 8.9 kg (2.0 lb)             | 4 kg (8.8 lb)            |
| **Temperature Range** | Operating: 0 to 40°C (32 to 104°F)  
Storage: -20 to 60°C (-4 to 140°F) | Operating: 0 to 40°C (32 to 104°F)  
Storage: -20 to 60°C (-4 to 140°F) | Operating: -20 to 70°C (-4 to 158°F)  
Storage: -30 to 80°C (-22 to 176°F) |
| **Certifications** | FCC, CE, CB, TRA, ICASA, SABS, CICT, SASO, IDA | FCC, CE, CB, TRA, ICASA, SABS, CICT, SASO, IDA | FCC, CE, CB, TRA, ICASA, SABS, CICT, SASO, IDA |

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**Fast and Secure**
Enterprise-class multi-site Wi-Fi for visitors, employees, and the Internet of Things.

**Wi-Fi Floor Planning**
Access points are placed and managed on customer floor plans, allowing optimized Wi-Fi performance and coverage.

**Remote Wi-Fi**
Use access points to securely and efficiently extend your enterprise WAN to home offices.

**BYOD Ready**
Device proliferation is controlled by captive portals for self enrollment of both guests and employees.

**Traffic Prioritization**
Airtime prioritization for network users and applications, e.g. VoIP or video streaming.

**Network Zoning**
Virtual zones follow their users throughout the organization, providing consistent connectivity and security.